

MOHAMMAD SEDARAT

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PROFILE

Fisheries Biologist
Fisheries Resources Division, Southwest Fisheries Science Center, NOAA.

Experience with scientific collection of wild squid, aquarium rearing of squid and fishes

Proficiency with laboratory techniques including analysis of cephalopod statoliths, and aquarium construction and maintenance

Skilled in small boat operation

Certified scientific SCUBA diving

Advanced cardiovascular research experience (UCSD Dept. of Medicine)

EDUCATION

B.S., Marine Biology
University of California, San Diego

HSD – Valley Center High School, Class of 2010, ranked sixth student in the class

AVAILABILITY

Plans for graduate studies program as early as spring 2016

PUBLICATIONS

Perretti, Charles T., Mohammad Sedarat. *In Prep.* The influence of paralarval survival on the population dynamics of market squid (*Doryteuthis opalescens*).

Perretti, Charles T., Philip Zerofski, Mohammad Sedarat. *In Press.* The spawning dynamics of market squid (*Doryteuthis opalescens*) as revealed by laboratory observations.

PRESENTATIONS

Larval Squid Growth in a Changing Environment: Insights from Laboratory and Field Studies

Mohammad Sedarat, Charles T. Perretti
UCSD Undergraduate Research Conference 2014

Live fast, die young: the boom and bust dynamics of California market squid

Charles T. Perretti, Mohammad Sedarat, George Sugihara
NMFS / Sea Grant Population Dynamics Fellowship Meeting
June 16, 2014
Seattle, Washington, USA

The boom and bust dynamics of California market squid (*Doryteuthis opalescens*)

Charles T. Perretti, Mohammad Sedarat, George Sugihara
NMFS / Sea Grant Population Dynamics Fellowship Meeting
AFS Meeting 2014
Quebec City, Canada

EXPERIENCE

Fisheries Biologist for Coastal Pelagic Species Life History Team (CPS-LHT) at Southwest Fisheries Science Center, NOAA

- July 2014 to current
- 30-40 hours per week

Research Assistant for Squid Ecology Project, Scripps Institution of Oceanography (SIO)
Sept. 2013 to July 2014 (supervised by Charles Perretti)

5 - 30 hours per week

SIO Eelgrass Ecology Project (www.cgrass.org): laboratory growth measurements and analysis of epiphytes; scientific diver

Cardiovascular research technician, UCSD Dept. of Medicine
2011 – Present; 5-10 hours per week

Volunteer Aquarist's assistant, Birch Aquarium at SIO
Jan. 2013; 227+ hours logged

Sales/Finance employee, UCSD Recreation Dept.
Nov. 2013 to Aug. 2014
8-10 hours per week

Previous extensive volunteer work with Boy Scouts of America (Eagle Projects, trash pickups, etc.) and Valley Center Public Library

SKILLS

Field/laboratory research: boating (pier launch and onboard maritime operations), pier plankton tows, mature/wild squid collection/husbandry, squid egg capsule and paralarvae husbandry, embryonic squid analysis, statolith aging/growth analysis, curatorial work at Southwest Fisheries Science Center for the acquisition of *Doryteuthis opalescens* paralarvae collected by CalCOFI.

SCUBA Certifications

Scientific SCUBA (AAUS) Rescue SCUBA

Advanced Open Water Enriched Air Nitrox SCUBA

Scripps Motorboat Operator Training Course Certification

Advanced aquarium maintenance, engineering/design (plumbing and electrical), and marine husbandry.

Surgical, X-ray, and monitoring techniques performed in cardiovascular research canine studies. Surgery (small & large animals)

Advanced cardiovascular histology technique.

Adult CPR/AED, Pediatric CPR, Oxygen and First Aid Certification

Soldering and wiring techniques, especially in the engineering of an EKG/pressure monitoring computer tower within the cardio laboratory.

Detailed knowledge of computing systems hardware (capable of building/clocking computers) and software, electronic technology

Extensive proficiency with Microsoft Office, Apple iWork, Microsoft Windows and Apple OSX operating systems – type 80 words per minute.

Introductory R programming (currently learning).

Patron/customer service interactions at Birch Aquarium and UCSD Recreation.

Ability to maintain accurate records

REFERRALS

Charles Perretti
PhD Scripps Institution of Oceanography
NOAA, National Marine Fisheries Service
Northeast Fisheries Science Center
Woods Hole, MA 02543, USA
(508) 495-2000

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